

ABSTRACT

To realize a small-sized coreless motor featuring excellence in responsiveness and controllability, capability of obtaining greater rotating torque compared with driving power supplied to the coil, great intensity, ease in assembly and high energy efficiency, a coreless motor of the present invention comprising; each of coils 8, 8 comprises a flat portion, which consists of a winding unit that confronts the upper and lower faces of a ring-shaped magnet 5 and whose plane part forms an arc shape, and a curved-and-folded portion, which consists of a winding unit that confronts the external circumference side face of the magnet, with the section from one end of the lead wire constituting these winding units to the other end being arranged to compose a continuous, hollow unit; wherein the flat portion in the lower part of these coils 8, 8 is fitted to thin-sheet-shaped flange 9a below coil holder 9, which is installed around the rotating axis 4, so that multiple coils are arranged along the external circumference direction of the magnet, and to the flat portions on the upper side of the coils 8, 8, thin/round annulus upper-side reinforcing plates 15 are attached.